29094
S/597/60/000/001/004/005
B102/B138

21.6000

AUTHOR: Khlyustikov, N. M.

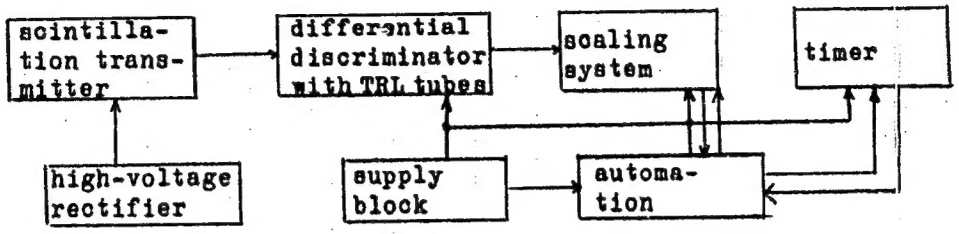
TITLE: Single-channel spectrometer with a resolving time of 0.3 μsec

PERIODICAL: Apparatura dlya yadernoy spektrometrii, no. 1, 1960, 84-92

TEXT: Whereas the usual single-channel spectrometers have resolving times of only 2-5 μsec at a load of 30,000 pulses/sec, the development of new types of tube 6B1П (6V1P), under the supervision of N. V. Cherepnin and TPЛ (TRL) under the supervision of L. D. Lazarev-Marchenko means that it is possible to resolve pulses of the order of 10^{-8} sec at repetition frequencies of 300,000-500,000 pulses/sec. A new spectrometer of this type with TRL transitron regenerative tubes is described. The block diagram is the following:

Card 1/3

Single-channel spectrometer with...



The discriminator, designed on the basis of two ТРЛ-2 (TRL-2) tubes is shown in Fig. 2. The main feature of these tubes is that their anode - grid characteristics have a jump of ~10 ma. An anode pulse with an amplitude of 5 v has a front of $(15\text{-}20)\cdot10^{9}$ sec. The linear part of the characteristics is eliminated by introducing a diode (4 ma) between the first and second anodes. The dead time of the circuit is less than $5\cdot10^{-8}$ sec. The second TRL tube provides for pulse broadening. The anticoincidence circuit operates with 6V1P tubes. This circuit forms signals with an amplitude of about 30 v and a duration of $3\cdot10^{-8}$ sec. The scaling circuit has a capacity of 10^{5} pulses. It operates (Fig. 5) with two trochotrons and three

Card 2/5

decatrons and has a resolving time of 0.3 μsec. It scales continuous signals with a frequency of 1.3 Mc/sec. The trochotron needs a pulse amplitude of not less than 150 v which is achieved (at 1.3 Mc) by means of a trigger circuit on the basis of a double triode of the type 6H6П (6N6P). The RC oscillator of the timer operates at 100 cps. The stability of the timer, which is equipped with 5 decatrons, is more than ± 0.1%. The spectrometer was tested with double signals of 0.1 μsec. The nonlinearity of the pulse-height characteristics was less than 1 %, which is within measuring error limits, the resolving time proved to be 0.3 μsec at $1.3 \cdot 10^6$ pulses/sec. Stable operation of the spectrometer is assured up to 250,000 pulses/sec. It is not sensitive to fluctuations of ± 10% in the supply voltage, and can be used continuously over long periods of time. A Zn^{65} spectrum was also taken for test purposes and yielded best results. There are 8 figures and 10 references: 2 Soviet and 8 non-Soviet. The four references to English-language publications read as follows: Moody N. F. Electr. Engng., 24, 214 (1952); Wells F. H. J. Sci. Instr., 29, 111 (1952); Wells F. H. Nucleonics, 10, 28 (1952); Adler R. Proc. Nat. Electr. Conf., 5, 408 (1949).

GOLOVANOVA, L.B.; KHLYUSTIKOV, N.M.

Decade scaler in a trochotron. Nauch.-tekh.sbor.Gos.izd-va lit. v obl. atom. nauki i tekh. no.4:109-117 '62. (MIRA 16:10)

SASHENKOV, Mikhail Semenovich, kand. tekhn. nauk; SOROKOLETOV, Aleksandr Fedorovich; AFONASOV, Nikifor Ivanovich, dots.; UKOLOV, Mikhail Sergeyevich, inzh. st. nauchn. sotr.; GONCHARENKO, Andrey Nikiforovich, inzh. mlad. nauchn. sotr.; KHLYUSTIKOVA, Iraida Nikolyaevna, inzh., ml. nauchn. sotr.; GOLIK, Svetlana Andreyevna, inzh.

[Specialized transportation facilities for the haulage of building materials and elements] Spetsializirovannye transportnye sredstva dlia perevozki stroitel'nykh materialov i konstruktsii. Moskva, Stroiizdat, 1964. 57 p. (MIRA 18:5)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Rukovoditel' laboratorii transportnykh rabot otdela transportnykh, pogruzochno-razgruzochnykh i skladskikh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Sashenkov). 3. Glavnyy inzhener laboratorii transportnykh rabot otdela transportnykh, pogruzochno-razgruzochnykh i skladskikh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Sorokoletov). 4. Laboratoriya transportnykh rabot otdela transportnykh, pogruzochno-razgruzochnykh i skladskikh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Afonasov, Ukolov, Goncharenko, Khlyustikova).

KHLYUSTIN, B.P. deceased

PHASE I BOOK EXPLOITATION SOV/5192

Karasavtsev, Boris Ivanovich, and Boris Pavlovich Khlyustin (Deceased)

Morekhodnaya astronomiya (Nautical Astronomy) Leningrad, Izd-vo "Morskoy transport", 1960. 492 p. Errata slip inserted. 7,500 copies printed.

Reviewer: L.F. Cherniyev; Specialist Ed.: N. Yu. Rybaltovskiy; Ed. of Publishing House: Z.S. Frishman; Tech. Ed.: O.I. Kotlyakova.

PURPOSE: This textbook is intended for students at naval engineering schools of higher education. It may also be useful to practicing navigators as a handbook.

COVERAGE: The authors discuss theoretical and practical problems in navigational astronomy. Special attention has been given to a description of methods of altitude line location. The textbook is a supplemented and rewritten version of the 1948 edition. The use of Nautical Astronomic Yearbooks is explained. Some new Soviet and non-Soviet instruments are described, and Soviet Table VAS-58 (Vysoty i azimuty svetil - Altitudes and Azimuths of Celestial Bodies) is referred to. The author thanks V.G. Vasil'yev. There are 44 references: 42 Soviet and 2 English.

Card 1/13

OPPEL', V.V.; KHLYUSTINA, T.B.

Amphoteric properties of the actinlike protein from the smooth muscle of a dog stomach. Biokhimiia 25 no. 3:533-539 My-Je '60. (MIRA 14:4)

1. Institute of Evolutionary Physiology, Academy of Sciences of the U.S.S.R., Leningrad.

(ACTIN)

KHLYUSTINA, T. B., OPPEL, V. V., and SEREBRENNIKOVA, T. P. (USSR)

"Some Structural Proteins in the Smooth Muscles of Mammals."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

OPPEL', V.V.; KHLYUSTINA, T.B.

Smooth muscle protein salted out at 25% $(NH_4)_2SO_4$ saturation. Biokhimiia 26 no.6:1051-1058 N-D '61. (MIRA 15:6)

1. Instituta of Evolutionary Physiology, Academy of Sciences of the U.S.S.R., Leningrad.
(PROTEINS) (SALTING-OUT) (MUSCLE)

KHLYUSTOV, YU. N.

"Aurorae Boreales and Radio Interference."

Vsesoyuznoye astronomo-geodezicheskoye obshchestvo. Byulleten' 1949, no. 5 (12), p. 15-16.

KHLYUSTOV, YU.N.

33878. Sutochnnoye i Godovoye Dvizheniya Siyaniy. Byulliyetyen: Vsyesoyuz. Astron.-Gyeodoyez. O-va. No 6, 1949. C 46.

SO: Letopis' Zhurnal'nykh Statey, Vol. 46, Moskva, 1949.

KHLYUSTOV, YU. N.

Atmospheric electricity

Effect of the course of bright meteors on radio-reception. Biul. VAGO No. 10 (17), 1951.

Monthly List of Russian Accessions, Library of Congress, May 1952, Unclassified.

KHLYUSTOVA, A.I.

OLSUF'YEV, N.G.; PETROV, V.G.; YAMOLOVA, N.S.; MIKHAILOVA, V.A.; SAMSONOVA, A.P.; KHLYUSTOVA, A.I.

Role of the tick Dermacentor marginatus Sulz. in sustaining tularemia infection in a natural nidus of the bottomland type. Zool.zhur. 33 no.2: 290-295 Mr-Ap '54. (MLRA 7:5)

1. Otdel parazitologii i meditsinskoy zoologii (zaveduyushchiy - akademik Ye.N.Pavlovskiy) IEM Akademii meditsinskikh nauk SSSR im. N.F.Gamaleya, Stalingradskaya protivoepidemicheskaya stantsiya Ministerstva zdravookhraneniya SSSR i Stalingradskaya protivotulyaremiynaya stantsiya.
(Tularemia) (Ticks as carriers of disease)

KHLYUSTOVA, A. I.

OLSUF'YEV, N.G.; PETROV, V.G.; YAMOLOVA, N.S.; MIKHAILOVA, V.A.; SAMSONOVA, A.P.; KHLYUSTOVA, A.I.

Role of the ticks Rhipicephalus rossicus Jakim. et K.-Jakim. in sustaining tularemia in a natural focus of the flood plains. Zool.zhur. 34 no.61224-1228 N-D '55. (MLRA 9:1)

1. Otdel parazitologii i meditsinskoy zoologii (zav.akad.Ye.N.Pavlovskiy), IEM Akademii meditsinskikh nauk SSSR imeni N.F.Gamaleya, Stalingradskaya protivoepidemicheskaya stantsiya Ministerstva zdravookhraneniya SSSR i Stalingradskaya protivotulyaremiynaya stanrsiya.

(Tularemia) (Ticks as carriers of disease)

BORODIN, V.P.; SPITSYN, N.A.; SAMSONOVA, A.P.; KOROLEVA, A.P.; KHLYUSTOVA, A.I.

Two cases of tularemia caused ty the bite of the tick Rhipicephalus rossicus Jakim. et K.Jakim. Zhur.mikrobiol. epid. i immun. 27 no. 9: 49-51 S '56. (MLRA 9:10)

1. Iz Stalingradskoy oblastnoy protivotulyaremiynoy stantsii (glavnyy vrach - V.P.Borodin)

(TULAREMIA, tiology and pathogenesis,
tick Rhipicephalus rossicus bite (Rus))
(TICKS,
Rhipicephalus rossicus bite causing tularemia (Rus))

Observations on the first cases of human tularemia from Ixodes tick bites encountered in Stalingradskaya Oblast are presented. Clinical pictures and diagnoses of two cases are described. Tularemia was verified by precise methods of laboratory diagnosis.

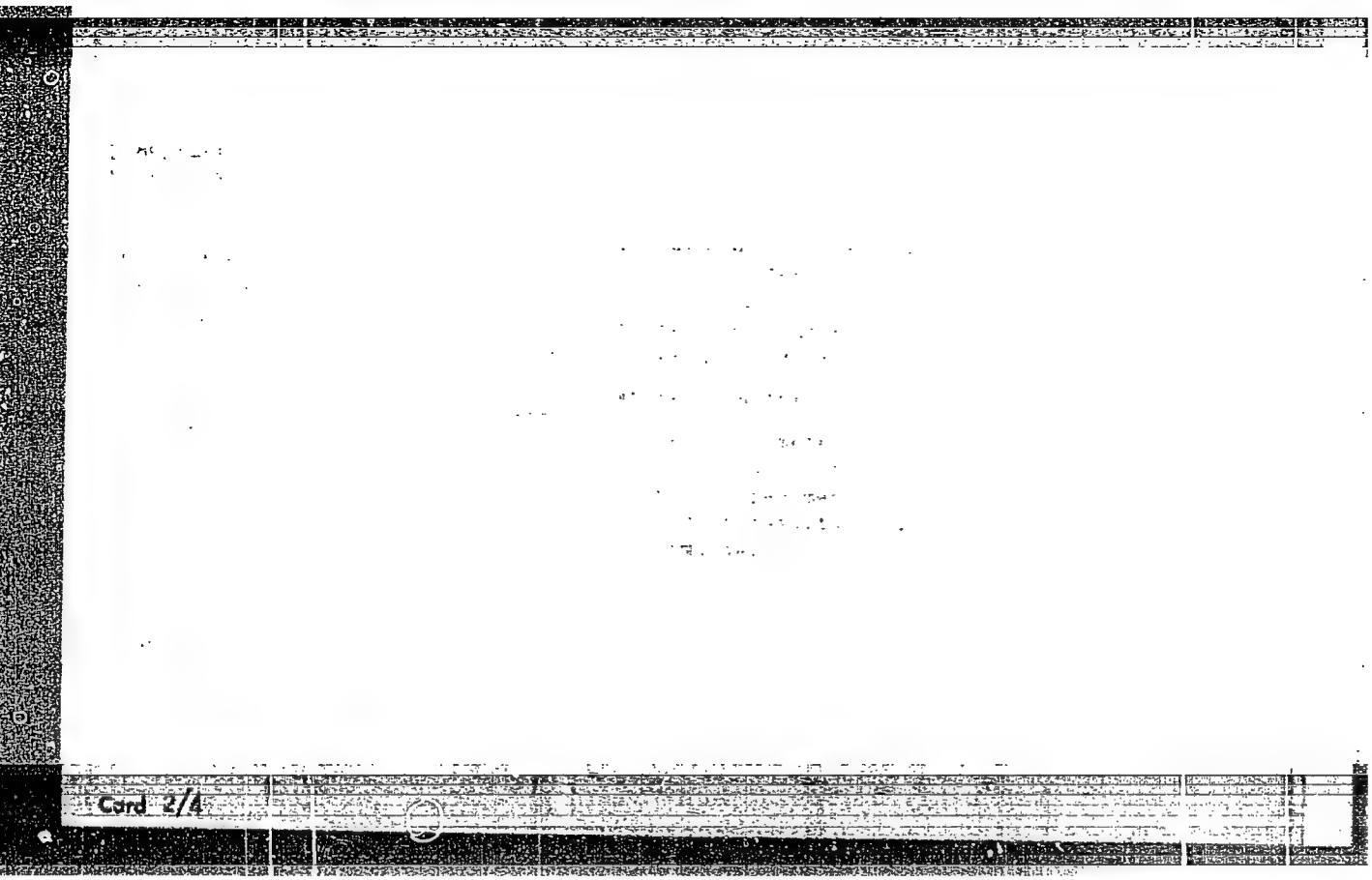
On the basis of these observations, the following conclusions are presented:

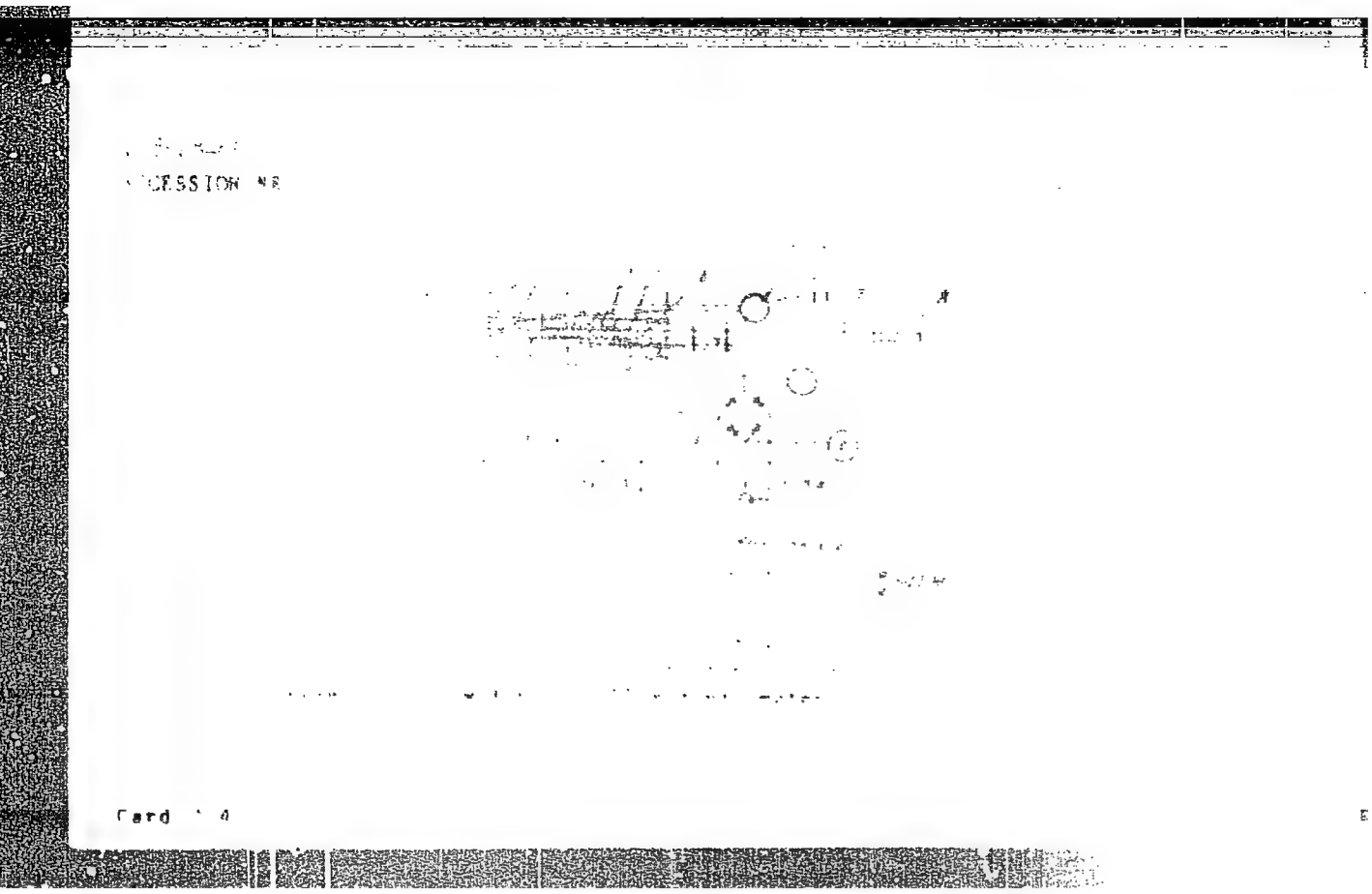
1. Two cases of the ulcerous-bubonic form of tularemia following bites of ticks (Rhipicephalus rossicus) were observed.
2. The high rate of infection among ticks of the species Rhipicephalus rossicus (3.3%) in comparison with that among Dermacentor marginatus (0.5%), both of which were found in the same territory, was bacteriologically verified.
3. Strains of tularemia bacteria isolated from domestic mice (Mus musculus) and the aforementioned species of ticks were typical in regard to their baisc characteristics, including virulence.

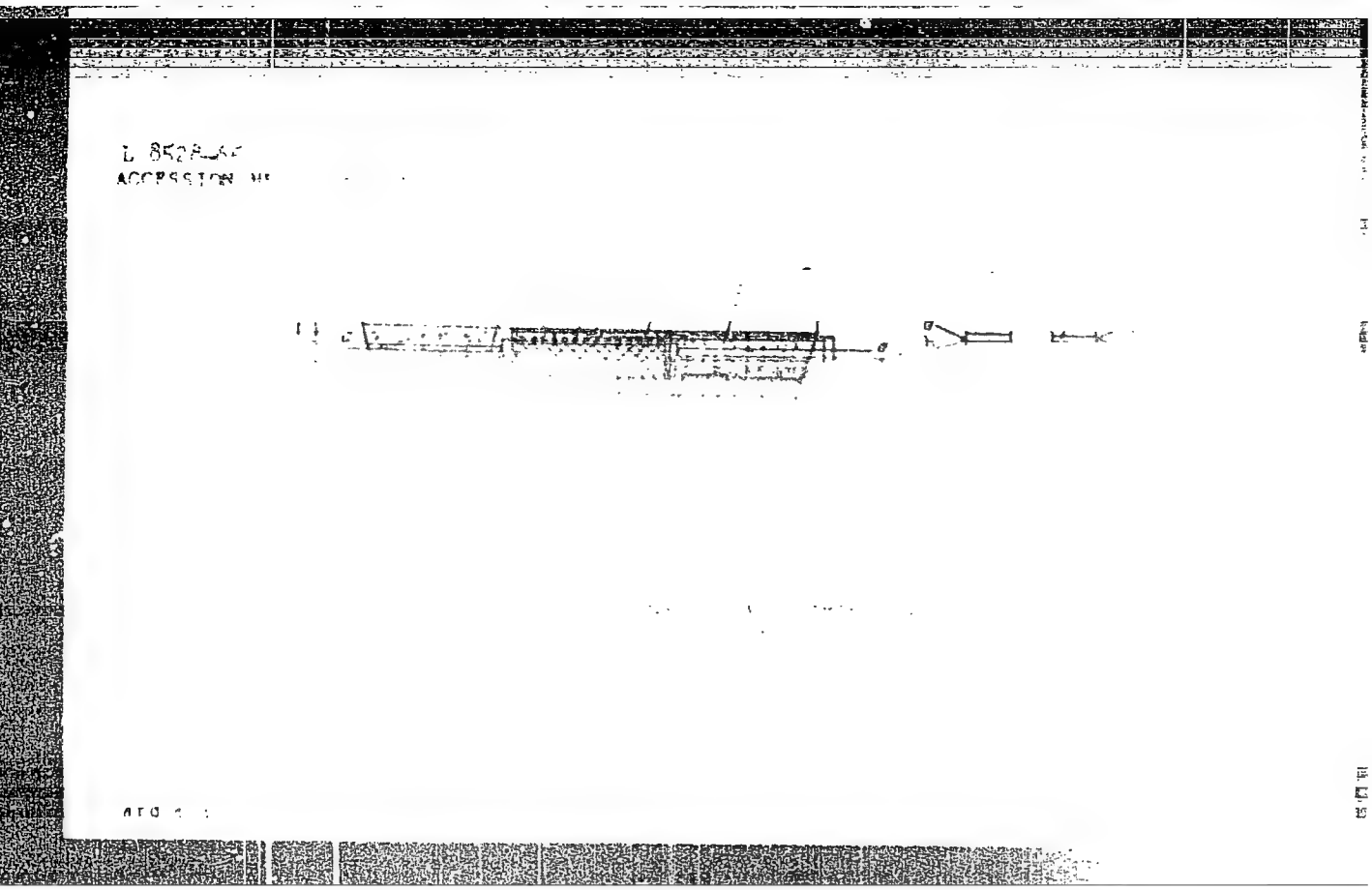
L 8528-65

SOURCE: Teploenergetika, no. 10, 1954, 92-93

TOPIC TAGS: thermal conductivity, high temperature instrument, PP potentiometer







K....., A.A.

The use of a vertical continuous retort at Amzinsk W... Chemical Plant. ... A. S. ...

... temp. of 700°. The gaseous ... near the top of the digester contains acid ... MeOH ... 2 ... substances with carbonyl gr... as acetone 13 ... 9.2, sepd. wood tar 74.5 ... dissolved wood tar 66.4–11.5 g./cu. m. of dry gas. It is carried through 3 condensers, and the uncondensed gas, a typical compn. of which is CO_2 19.50, O 0.71, C_nH_{2n} ..., CO 12.30, H 6.35, CH_4 7.79, and N 52.61 vol. %, ... turned to the digester. Part of the gases is blown ... section where they cool wood tar, and the rest is ... furnace gases as they enter the digester. In addn. to a higher yield of AcOH (69.4% of the theoretical) several other tech. and economical advantages of the process are described. AcOH is extd. from the mixt. with AcOEt.

T. Jurecic

KHLYZOV, A.N.; FEFILOV, V.V.; TERENT'YEVA, V.V.

Wood chemistry industry in the last forty years. Gidroliz. i lesokhim. prom. 10 no.7:3-6 '57. (MIRA 10:12)
(Wood-using industries--History)

KHLYZOV, A.N.; MAYEVA, D.B.

Problem of increasing the effectiveness of capital investments in the wood chemistry industry. Gidroliz.i lesokhim. prom. 12 no.6:22-23 '59. (MIRA 13:2)

1. Gosplan RSFSR (for Khlyzov). 2. Giproleskhim (for Mayeva).
(Wood-using industries--Finance)

MIKHAYLOV, Mikhail Ivanovich; YASINSKIY, Boris Nikolayevich; KHLYZOV, A.N., red.; MIKHAYLOVA, L.G., red. izd-va; PARAKHINA, N.L., tekhn. red.

[Prospects for the growth of the hydrolysis and wood chemistry industry] Perspektivy razvitiia lesokhimicheskoi i gidroliznoi promyshlennosti. Moskva, Goslesbumizdat, 1960. 54 p. (MIRA 14:7)
(Wood—Chemistry) (Hydrolysis)

KELYZOV, A.N., inzh.

Results of the development of the wood chemicals industry in the U.S.S.R. and its future tasks. [Trudy] NTO bum.i der.prom. no.8:232-240 '59. (MIRA 16:2)
(Wood—Chemistry)

ORLOV, V.V., inzh.; YAKIMOV, P.A. (Novosibirsk); KHLYZOV, A.G., starshiy dorozhnyy master (Novosibirsk)

Letters to the editor. Put' i put.khoz. 5 no.11:41 N '61.
(MIRA 14:12)

1. Nachal'nik distantsii puti, st. Levshino, Sverdlovskoy dorogi (for Orlov). 2. Starshiy inspektor Glavnogo upravleniya material'no-tekhnicheskogo obespecheniya, g. Novosibirsk (for Yakimov).

(Railroads—Track)

KHMALADZE, A. G.

37547. Sanitarnaya Okhrana Vodnykh Resursov Gruzinskoy SSR. V SB: XII Vsesoyuz. S" yezd Gigiyenistov, Epidemiologov, Mikrobiologov I Infektsionistov. T. I. M., 1949 c. 93-95.

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 149

KHMALADZE, A.G.

Reasearch on public nutrition by a statistical inquiry method. Vop.pit. 15 no.4:53-55 Jl-Ag '56. (MLRA 9:9)

1. Iz kafedry gigiyeny Tbilisskogo instituta usovershenstvovaniya vrachey.

(NUTRITION
in Russia, statist. & inquiry method in research on pub. nutrition)
(PUBLIC HEALTH
in Russia, nutrition aspects, research by statist. & inquiry method)

KHMALADZE, A.G. (Tbilisi)

Method for use at health control stations in determining the ascorbic acid level in the body. Vopr.pit. 17 no.1:78-81 Ja-F '58. (MIRA 11:4)

1. Iz laboratorii gigiyeny pitaniya (zav. - prof. A.G.Khmeladze) Nauchno-issledovatel'skogo sanitarnogo instituta Ministerstva zdravookhraneniya Gruzinskoy SSR.

(VITAMIN C, metabolism, determ. (Rus))

[illegible], A. G., ZAALISHVILI, A. A., KAPANADZE, P. I., KARTOZIYA, P. T., KOSTOMAKOVA, M. V., TAKTAKISHVILI, S. D., MGALOBLISHVILI, Ya. T., NOLIYA, P. I.

"On the study of organized nutrition of various age-related and industrial groups of population of the Georgian SSR."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

KHMALADZE, A.G.; DZHIBLADZE, V.Ye.

Toxicological and hygienic evaluation of mercaptophos. Vop. pit. 19 no.3:62-64 My-Je '60. (MIRA 14:3)

1. Iz Nauchno-issledovatel'skogo instituta sanitarii i gigiyeny Ministerstva zdravookhraneniya Gruzinskoy SSR, Tbilisi.
(INSECTICIDES) (SYSTOX)

KHMALADZE, A.G.; ZAALISHVILI, A.A.

Method for the determination of fats in milk and milk products.
Vop. pit. 19 no. 6:85-86 N-D '60. (MIRA 13:12)

1. Iz kafedry gigiyeny (zav. - prof. A.G. Khmaladze) Tbilisskogo gosudarstvennogo instituta usovershenstvovaniya vrachey.
(MILK--ANALYSIS AND EXAMINATION) (BUTTERFAT)

KHMALADZE, A.G.; KAPANADZE, P.I.; RIZHAMADZE, O.K.

Hygienic evaluation of fruits from plants treated with derivatives of dithiocarbamic acid. Vop. pit. 21 no.1:74-77 Ja-F '62. (MIRA 15:2)

1. Iz laboratorii gigiyeny pitaniya Tbilisskogo nauchno-issledovatel'skogo instituta sanitarii i gigiyeny.
(FRIUT) (CARBAMIC ACID)

KHMALADZE, Gr.

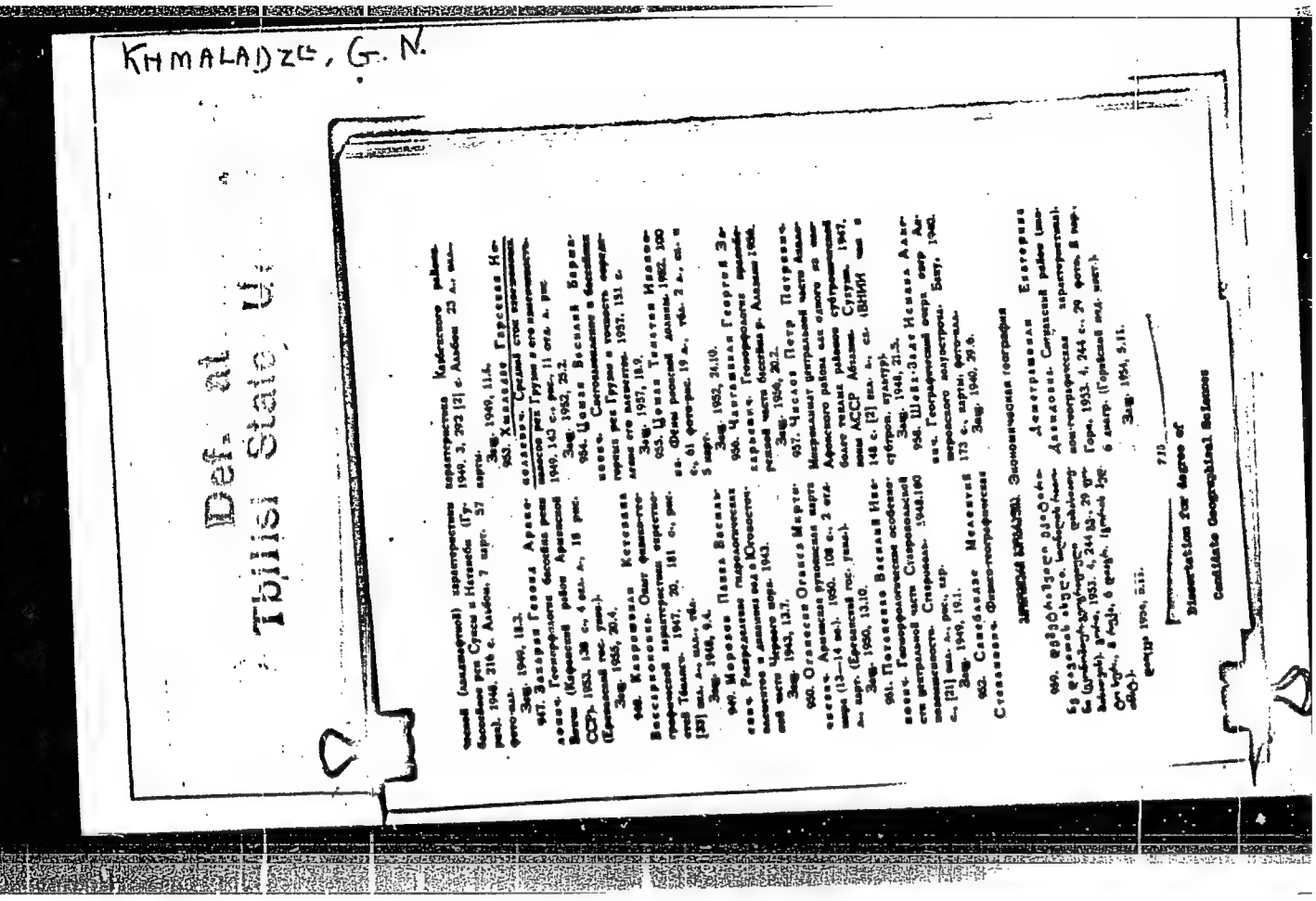
Illusion of size. Eksp. issl. po psikhol. ust. 1:137-152 '58.
(MIRA 13:12)
(Hallucinations and illusions)

KHMALADZE, G. N.

"Typical Curves of Confidence of the Average Daily Discharges of the Rivers of Georgia," Meteorol. i gidrologiya, No 3, 1953, pp 15-19

The author distinguishes the principal types of supply for the rivers of Georgia: lake-spring, glacial, glacial-snow, mixed (glacial-snow-rain), and rain. For each of these he establishes the typical curve of confidence of the daily discharges with indication of the ordinates of the characteristic discharges. In the appendix is a schematic chart of regionalization of the confidence curves in dependence upon the conditions of supply. (RZhGeol, No 5, 1954)

SO: Sum. No. 568, 6 Jul 55



KHMALADZE, G. N.

Def. at Tbilisi State U.

710

Dissertation for degree of
Candidate Geographical Sciences

Khmaladze, G.N.

KHMALADZE, G.N., kandidat geograficheskikh nauk (Tbilisi)

Rare flash flood. Priroda 44 no.10:91-93 O'55. (MLRA 8:12)
(Caucasus--Floods)

KHMALADZE, G.N.

Seasonal flow-off of suspended silt of Georgian rivers. Trudy Toll. NIGMI no.1:61-68 '56. (MLRA 10:9)

(Georgia--Rivers)

KHMALADZE, G.N.

All-Union conference on snow cover in mountains. Meteor. i gidrol. no.1:61-62 Ja '57. (MLRA 10:3)
(Snow)

AUTHOR: Khmaladze, G. N. 50-1-25/26

TITLE: The Scientific Session of Tbilisi Scientific Research Institute for Hydrometeorology. (Nauchnaya sessiya Tbilisskogo NIGMI)

PERIODICAL: Meteorologiya i Gidrologiya, 1958, Nr 1, pp. 66-67 (USSR)

ABSTRACT: In May 1957 this institute held its fourth scientific session, where 16 lectures devoted to various branches of the hydrometeorological science were held. Under the conditions of Transcaucasia the problem of the forecast of thunderstorms is of great practical importance, therefore special attention was paid to the lecture by Guniya, S. U. on the method of forecasting thunderstorms under the mountainous conditions of Transcaucasia and the lecture by Shishkin, N. S. (Main Geophysical Observatory) on the topic of the forecast of thunderstorm-processes according to the method of layers. Papinashvili, K. I., Napetvaridze, Ye. A. and Lominadze, V. P. dealt with the problems of the investigation and subdivision of the air- and turbulence-currents above Transcaucasia. Vorontsov, P. A. reported on some peculiarities of the temperature- and wind-conditions above the lake Sevan.

Card 1/2

The Scientific Session of Tbilisi Scientific Research Institute for Hydrometeorology. 50-1-25/26

Kvaratskheliya, I. F., Tsutskiridze, A. Ya. and Kurdiani, I. G. (State University Tbilissi) reported on the results of their works in the field of the aeroclimatic characteristic of the free atmosphere, on the analytical method of the treatment of observations with pilot balloons and distribution of clouds in Georgia.
Chirakadze, G. I. and Gigineyshvili, V. M. explained the scheme of the radiation method of plotting the slipperiness of ice in Transcaucasia and the characteristic of slush and its distribution in Transcaucasia. Khmaladze, G. N., Tsomaya, V. Sh. and Poklepa, V. F. reported on the duration of the vernal-aestival floods in the rivers of Transcaucasia and on the method of their calculation as well as on the method of the determination of the water supplies in the snow according to given records of snow routes.
Tsertsvadze, Sh. I. held a lecture on the method of forecasting the main phenophases of grapes in Georgia,
Svanidze, V. F. - on the characteristic of the agrometeorological conditions of the cultivation of potatoes, various conditions of the cultivation of potatoes, various terms for planting in the low grounds of valleys of East Georgia.

Card 2/2
AVAILABLE: Library of Congress

1. Weather forecasting 2. Meteorology

KHMALADZE, G.N.

Problems and methods of snow surveys in the Caucasian mountains. Trudy Tbil. NIGMI no.3:5-12 '58. (MIRA 11:10)

1. Tbilisskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut.

(Caucasus--Snow)

KHMALADZE, G.N.

Average discharge of Georgian rivers. Trudy Geog. ob-va Gruz. SSR no.3:75-84 '58. (MIRA 12:9)
(Georgia--Rivers)

KHMALADZE, G.N.

Muddiness of Armenian rivers. Izv. AN Arm.SSR. Ser. tekh. nauk 11 no.1:15-30 '58. (MIRA 11:4)

1. Tbilisskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut.
(Armenia--Rivers)

KHMALADZE, G.N.

3(1) PHASE I BOOK EXPLOITATION SOV/3099

Tbilisi. Nauchno-issledovatel'skiy gidrometeorologicheskiy institut

Trudy, Vyp. 4 (Transactions of the Tbilisi Hydro-Meteorological Scientific Research Institute, No. 4) Leningrad, Gidrometeoizdat, 1959. 178 p. 1,500 copies printed.

Additional Sponsoring Agency: USSR. Sovict Ministrov. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

Ed. (Title page): V. P. Lominadze; Ed. (Inside book): V. D. Pisarevskaya; Tech. Ed.: N. V. Volkov.

PURPOSE: This book is intended for meteorologists and hydrologists.

COVERAGE: This is a collection of 12 articles on jet streams and turbulent currents, the analysis of the effect of orography on changes in atmospheric pressure, the characteristics of the temperature regime in the free atmosphere, the development of methods of forecasting storms, low cloud ceilings, fogs, water discharges, spring floods and various other hydrometeorological phenomena in the Transcaucasia area. Of particular interest are articles on visibility conditions around Transcaucasian airports the aerosynoptic conditions causing air bumpiness in the area. References accompany each article.

Card 3/4

3(7)

AUTHOR: Khmaladze, G. N.

SOV/5o-59-2-24/25

TITLE: Scientific Meeting at the Tbilisi Scientific Research Institute of Hydrometeorology (Nauchnaya sessiya v Tbilisskom nauchno-issledovatel'skom gidrometeorologicheskom institute)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 2, pp 7o - 71 (USSR)

ABSTRACT: In May 1958 the Tbilisskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (Tbilisi Hydrometeorological Scientific Research Institute) held a meeting in which the following representatives participated: Representatives of the Tsentral'nyy institut prognozov (Central Forecasting Institute), Glavnaya geofizicheskaya observatoriya (Main Geophysical Observatory), and the local administrations of the hydrometeorological services of the Transcaucasian Republics. On the occasion of the fifth anniversary of the Tbilisi NIGMI the director of the Institute V. P. Lominadze held a speech commemorating the event. Kh. P. Pogosyan (TsIP) spoke on the character of temperature distribution and the circulation of the atmosphere above the Antarctica. K. I. Papinashvili and Ye. A. Napetvaridze spoke on the characteristics of the

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circulation processes above Transcaucasia. M. A. Zakhashvili reported on the typification of synoptical processes carried out by him. R. I. Nozadze read two papers on theoretical questions of dynamic meteorology. V. M. Gigineishvili and V. P. Lominadze spoke on the present state of the fight against hail. F. T. Kharchilava spoke on the great amounts of precipitation on East Georgia, I. T. Bartishvili on meteorological visibility in cloudbursts, Ye. A. Polyakova (GGO) on the meteorological visibility in the case of precipitation and fog, G. I. Chirakadze on the precipitation in Georgia in the course of 24 hours, E. V. Sukhishvili on the wind energy reserves of Georgia, Sh. V. Mosidze on the radiation and heat balances in the alpine zone of the Kazbegi, Ye. R. Dvali on the radioactivity of the atmosphere in Tbilisi and Dusheti, Ya. A. Tsutskiridze on the albedo of different natural surfaces, Sh. G. Gavasheli (UGMS of the Gruzinskaya SSR) on the ground temperature conditions in Tbilisi, V. Sh. Tsomaya on the method developed by him for forecasting the number of days with ice mash, V. F. Pok-

lepa on a method for the calculation of the volume of rain water supply in floods, G. F. Pastukhova (UGMS of the Azerbaydzhanskaya SSR) on the use of indices of the atmospheric circulation in hydrological forecasts. The representative of the UGMS of the Armyanskaya SSR M. V. Shaginyan reported on the characteristics of the formation of the water supply for spring floods on the rivers of Armenia. A. A. Pogosyan (UGMS of the Armyanskaya SSR) pointed to the special role of the snow cover of the belt between 1800 and 2400 m in the formation of the water supply for spring floods on the rivers of Armenia. V. F. Svanidze spoke on the method of forecasting easily accessible humidity in the soil below grain cultures. N. P. Stolypin and Sh. I. Tsertsvadze spoke on the periods set for the opening of vineyards in Transcaucasia. O. M. Kandelaki, L. A. Enfiadzhyan (UGMS of the Armyanskaya SSR), and N. S. Chernysh spoke on the microclimatic conditions of the Lambalinskiy massif in the Armyanskaya SSR. In all, 27 papers were read.

3(7)
AUTHOR: Khmaladze, G. N. SOV/50-59-4-20/21

TITLE: Snow Surveys in the Mountains of the Caucasus
(O snegos"yemkakh v gorakh Kavkaza)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 4, p 77 (USSR)

ABSTRACT: In the resolutions of the Vtoroye Vsesoyuznoye soveshchaniye po izucheniyu snezhnogo pokrova v gorakh (Second All-Union Conference on the Study of the Snow Cover in the Mountains), which took place in Tbilisi in October 1956, meetings of snow surveyors were alternately provided for in Tbilisi, Baku and Yerevan. According to these resolutions, the Tbilisskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (TNIGMI) (Tbilisi Hydrometeorological Scientific Research Institute) organized such a meeting in 1957. On December 18-20, 1958, such a meeting was organized by the TNIGMI in Yerevan. Besides experts of the UGMS (Hydrometeorological Service Administration), also representatives of the Akademiya nauk Armyanskoy SSR (Academy of Sciences of the Armyanskaya SSR), of the Armgidep and the Geograficheskoye obshchestvo Armyanskoy SSR (Geographic Society of the Armyanskaya SSR), attended this meeting. An exhibition of the works by the snow-surveying squads

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of the UGMS of the 3 Transcaucasian Republics was installed in the meeting room. At the end of the meeting, a short film entitled "Snow Surveys in the Mountains" was shown. The film was made by I. Kisin and Sh. Agayev, co-workers of the UGMS of the Azerbaydzhanskaya SSR, under the direction of V. S. Vlasova.

G. N. Khmaladze, Chief of the Department of Hydrological Investigations and Forecasts, opened the meeting with a report of information. He spoke on the state of snow surveying and glacier research work to be carried out in 1959 by the UGMS and TNIGMI. Reports were then delivered by the directors and experts of the UGMS of the Azerbaydzhanskaya SSR (Sh. Agayev), of the Armyanskaya SSR (A. Pogosyan) and of the Gruzinskaya SSR (V. Palavandishvili). They reported on the state of the indoor service and field work for snow surveys in the mountains, on investigations of snow avalanches and glaciers, as well as on observations in 1958 of the snow cover in the mountains.-I. Kisin reported on glacier investigations in the mountains of Azerbaydzhan and Dagestan.-V. Sh. Tsomaya put forward the results of investigations on the correlation between route snow surveys and stationary observations, as well as formulas for the calculation of water reserves in snow according to the quantity of precipitations

in winter measured with the rain gauge. He reported on the state of glacier investigations in the Caucasus. G. N. Khmaladze reported on the work of the TNIGMI on the subject of snow avalanches, and gave a survey of avalanche slips in the various regions of the Great and Little Caucasus from 1933 to 1955.- A. A. Pogosyan reported on his determination of the water reserves in snow at an altitude of 1800-2400 m.

KHMALADZE, G.N.

Method of measuring and calculating the discharge of mountain rivers. Trudy Tbil.NIGMI no.4:153-161 '59. (MIRA 13:4)
(Georgia--Stream measurements)

KHMALADZE, G.N.

Thermal regime of river waters in Transcaucasia. Trudy Tbil. NIGMI no.5:168-176 '59. (MIRA 13:6)
(Transcaucasia--Rivers--Temperature)

KHMAIADZE, G.N.

Hydrology of inland waters of Tiflis. Trudy Tbil.NIGMI no.6: 88-128 '59. (MIRA 13:5)
(Tiflis region--Hydrology)

3(7) SOV/50-59-10-23/25

AUTHORS: Papinashvili, K. I., Khmaladze, G. N.

TITLE: At the Tbilisi Hydrometeorological Scientific Research Institute

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 10, p 56 (USSR)

ABSTRACT: The Tbiliskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (Tbilisi Hydrometeorological Scientific Research Institute) held a scientific meeting in May 1959, which dealt with the tasks outlined by the resolutions of the XXI Party Congress of the Soviet Communist Party. 40 lectures were delivered on various current problems of meteorology and hydrology. V. P. Lominadze, Director of the Institute, reported on the principal tasks to be mastered by the Institute in 1959-1965. The meeting was attended by scientific representatives of Gruziya, Azerbaydzhan, Armenia , Moscow, Leningrad and other cities.

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KHMALADZE, G.N.

Regular patterns of variations in the time of spring and summer flood flows in mountain rivers of Transcaucasia and the technique of their calculation. Trudy Tbil. NIGMI no.7:101-106 '60.
(MIRA 14:8)

(Transcaucasia--Floods)

KHMALADZE, G.N.

Conditions of the applicability of standard dates for observations on the water level of mountain rivers in Transcaucasia. Trudy Tbil. NIGMI no.7:113-127 '60. (MIRA 14:8)
(Transcaucasia--Rivers)

KHMALADZE, G.N.

Conference on the study of the snow cover and glaciers of the Caucasus. Meteor. i gidrol. no.10:64-65 O '60. (MIRA 13:10)
(Caucasus--Glaciological research--Congresses)

ZAYKOV, B.D.; ONUFRIYENKO, L.G.; SOKOLOV, A.A.; KHMALADZE, G.N.

"General hydrology; continental waters" by A.I.Chebotarev. Reviewed by B.D.Zaikov and others. Meteor.i gidrol. no.7:50-52 Jl '61. (MIRA 14:6)

(Hydrology) (Chebotarev, A.I.)

KEMAIADZE, G.N.

Mean runoff of Transcaucasian rivers and the effect of physicogeographical factors on it. Trudy Tbil.NIGMI no.8:42-62'61. (MIRA 15:3)

(Transcaucasia--Runoff)

KHMALADZE, G.N.

Flash floods in Georgia. Trudy Tbil.NIGMI no.8:68-93 '61. (MIRA 15:3)

(Georgia—Floods)

KHMALADZE, G.N.

State of studies and problems in exploring the snow cover and glaciers of the Caucasus. Trudy Tbil.NIGMI no.9:8-18 '61.
(MIRA 15:3)

1. Tbilisskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut.
(Caucasus--Glaciological research)

KHMALADZE, G.N.

Characteristics of the distribution of water in the snow of the Transcaucasian mountains. Trudy Tbil.NIGMI no.9:64-78 '61.
(MIRA 15:3)

1. Tbilisskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut.

(Transcaucasia—Snow)

KHMALADZE, G.N.

Effect of glaciation on the mean and annual runoff of rivers of the Greater Caucasus and the technique of its calculation. Trudy Tbil. NIGMI no.9:148-165 '61. (MIRA 15:3)

1. Tbilisskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut.

(Caucasus--Runoff)

KHMALADZE, G.N.

Organizing mud torrent information service in the Selav Mastara River basin. Meteor. i gidrol. no.4:52-54 Ap '62. (MIRA 15:5)
(Selav Mastara Valley--Floods)

KHMALADZE, G.N.

Annual distribution of the runoff of Georgian rivers. Trudy Tbil. NIGMI no.10:121-165 '62. (MIRA 16:11)

KHMALADZE, G.N.

Glaciological studies in the Caucasus Mountains. Meteor.i gidrol. no.11:57-59 N '62. (MIRA 15:12)

1. Zakavkazskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut.

(Caucasus—Glaciers)

KIMALADZE, Grigoriy Nikolayevich; YEGIAZAROV, I.V., akademik, retsenzent; LOPATIN, G.V., doktor geogr. nauk, retsenzent; LISITSYNA, K.N., nauchn. sotr., retsenzent; BOGOLYUBOVA, I.V., nauchn. sotr., retsenzent; KHERKHEULIDZE, I.I., red.; CHEPELKINA, L.A., red.

[Suspended sediments of the rivers of the Armenian S.S.R.] Vzveshennye nasosy rek Armianskoi SSR. Leningrad, Gidrometeoizdat, 1964. 245 p. (MIRA 17:9)

1. Laboratoriya nanosov Gosudarstvennogo gidrologicheskogo instituta (for Lisitsyna, Bogolyubova).

KHMALADZE, G.N.

Evaporation from the land surface on the territory of Georgia. Trudy Geog. ob-va Gruz. SSR 7:99-118 '63.

(MIRA 18:5)

KHMAIADZE, G.N.

Problems in the study of the snow cover, snow avalanches, and glaciers of the Caucasus. Trudy IBLNIGM. no.13:4-9 '63.
(MIRA 18:8)

1. Zakavkazskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut.

CHANTLADZE, Z.I.; KHMALADZE, G.N.

The hydrochemical regime of some glacial rivers of western Georgia. Trudy TbilNIGMI no.13:79-89 '63. (MIRA 18:8)

1. Zakavkazskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut.

KHMALADZE, G.N.

Regularities of change in the minimum flow of the mountain rivers of Armenia and the methodology of calculating it. Trudy ZakNIGMI no.18:95-107 '65.

(MIRA 19:1)

KHMALADZE, I.; TARTISHVILI, N., red.; BATIASHVILI, El., red.izd-va; TODUA, A., tekhred.

[Petrography of minor intrusions of the upper reaches of the Kuban River (in the area of the "El'brus" mine)] Petrografiia malykh intrusii verkhov'ev reki Kubani (v predelakh raiona rudnika "El'brus"). Tbilisi, Izd-vo Akad.nauk Gruzinskoi SSR. 1958. 44 p. [In Georgian] (MIRA 12:6)

(Kuban Valley--Petrology)

KHAALADZE, I. G.

"Acclimatization of Foreign Breeds of Trees in Kakhetia and Their Use in Decorative Park Construction." Acad Sci Georgian SSR, Inst Botany, Tbilisi, 1955 (Dissertation for the Degree of Candidate of Biological Sciences)

SO: Knizhnaya Letopis', No. 32, 6 Aug 55

KHMALADZE, I. I.: Master Geolog-Mineralo Sci (diss) -- "Small intrusions of the upper reaches of the river Kuban' (within the range of the "El'brus" mine)". Tbilisi, 1958. 13 pp (Tbilisi State U im I. V. Stalin), 150 copies (KL, No 1, 1959, 116)

ZARIDZE, G.M.; TATRISHVILI, N.F.; KHMALADZE, I.I.

Some specific features of upper Cretaceous volcanism in southeastern Georgia. Dokl.AN SSSR 133 no.3:649-652 Jl '60. (MIRA 13:7)

1. Geologicheskiy institut Akademii nauk GruzSSR. Predstavleno akademikom D.I.Shcherbakovym.
(Georgia--Metasomatism)

ZARIDZE, G.M.; TATRISHVILI, N.F.; KHMALADZE, I.I.

Petrography of Upper Cretaceous volcanic formations in southern Georgia. Trudy Geol.inst.AN Gruz.SSR. Min. i petr. ser. 6: 27-71 '61. (MIRA 15:9)

(Georgia--Petrology)

KHMALADZE, I.I.

Conglomerates from the crystalline shale formation of the Dzirula massif. Soob. AN Gruz. SSR 30 no.5:607-610 My '63. (MIRA 16:11)

1. Geologicheskiy institut AN GruzSSR, Tbilisi. Predstavleno akademikom P.D.Gamkrelidze.

KHMALADZE, O.G.

Temperature cycle of Georgian rivers. Trudy Geog. ob-va Gruz. SSR 7:151-158 '63. (MIRA 18:5)

KHMALADZE, O.G.

Ice regime of the rivers flowing from the southern slopes of the western "Caucasioni". Trudy Tbil. GU 90:189-194 '63.
(MIRA 17:4)

PKHALADZE, G.M., prof.; MACHAVARIANI, S.N., dotsent; TSINTSADZE, A.N.; MAGRADZE, K.G., dotsent; POCHKHUA, P.E.; CHOCHUA, D.V., kand. med. nauk; KOTARIYA, V.G., kand. med. nauk; KADAGIDZE, K.I., kand. med. nauk; GURABANIDZE, T.A., kand. med. nauk; PKHAKADZE, A.S., kand. med. nauk; AMIRIDZE, M.V., kand. med. nauk; KAVTARADZE, V.A., kand. med. nauk; KUTALADZE, L.A., kand. med. nauk; TSAGARELI, G.G., kand. med. nauk, [deceased]; KENCHADZE, I., kand. med. nauk; ABASHIDZE, N.G., kand. med. nauk; KHMALADZE, T.I., kand. med. nauk; DZHADZHANIDZE, D.V., kand. med. nauk

Effectiveness of the treatment of infectious syphilis (stage I and II) with bicillin-1 and bicillin-3. Vest. derm. i ven. no.1:56-61 '65. (MIRA 18:10)

1. Tbilisskiy nauchno-issledovatel'skiy kozhno-venerologicheskiy institut (dir.- dotsent S.N. Machavariani) i kafedra kozhno-venericheskikh bolezney (zav.- prof. G.M. Pkhaladze) Tbilisskogo instituta usovershenstvovaniya vrachey.

BORODENCHIK, N.K.; DIKALOV, A.I.; STOROZHIK, D.A.; KHMARA, A.M.

Three-bell charging hopper. Metallurg 6 no.2:7-11 F '61.
(MIRA 14:1)

1. Zavod "Zaporozhstal'" i Dnepropetrovskiy metallurgicheskiy institut.
(Blast furnaces—Design and construction)

KHMARA, A.Ya., aspirant

Efficient method of prospecting for anthophyllite asbestos deposits of the Sysert' group in the Urals. Izv.vys.ucheb.zav.; geol. i razv. 8 no.1:75-93 Ja '65. (MIRA 18:3)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze.

KHMARA, A.Ya.

Conditions governing the localization and characteristics of the distribution of anthophyllite-asbestos mineralization in the Sysert' region of the Urals. Sov. geol. 8 no.6:131-142 Je '65. (MIRA 18:8)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.

KHMARA, A.Ye.

Sysert' anthophyllite-asbestos province of the Urals. Zakonom. razm. polezn. iskop. 6:313-324 '62. (MIRA 16:6)

1. Ural'skoye geologicheskoye upravleniye.
(Sisert' District--Amphibole)
(Sisert' District--Asbestos)

VELIKOVSKAYA, E.M.; VEYMARN, A.B.; VERGUNOV, G.P.; APRODOV, V.A.; LYUSTIKH, Ye.N.; LIPOVETSKIY, I.A.; ROMASHOV, A.N.; FEL'DMAN, V.I.; SAVOCHKINA, Ye.N.; GENDLER, V.Ye.; RONENSON, B.M.; DOBROKHOTOVA, Ye.S.; LYUBIMOVA, L.V.; KHMARA, A.Ya.; VESELOVSKAYA, M.M.; KUDRIN, L.N.; CHERNIKOV, O.A.; SOROKIN, V.S.; IL'IN, A.N.; FIOROVSKAYA, V.N.; ZEZIN, R.B.; TEPLITSKAYA, T.A.; BRUSILOVSKIY, S.A.; KISSIN, I.G.; CHIZHOVA, N.I.; PAVLOVA, O.P.; SHUTOV, Yu.I.

Supplements. Biul. MOIP. Otd. geol. 39 no.4:155 Jl-Ag '64.
(MIRA 17:10)

23430
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D040/D112

1 1100

AUTHOR: Khmara, I.Kh.

TITLE: Machining spherical surfaces on vertical milling machines

PERIODICAL: Stanki i instrument, no.6, 1961, 18-20

TEXT: The article presents a detailed description of a new method for machining spherical external and internal surfaces on vertical milling machines instead of on lathes. It eliminates the special lathe attachments and the accuracy of dimensions and surface finish are higher. The new method consists in cutting with a rotating cutter held in a tool holder or cutter head fixed in the machine spindle; the workpiece is clamped in the indexing head chuck and rotated by its spindle (Fig.1). To obtain a part with an external incomplete sphere with a radius R_c and a cylindrical section with a diameter d, the workpiece must be turned so that its axis makes an angle γ with the horizontal. The cutter traces an arc with radius Rp through a point (B); all remaining points on the sphere will fall on the cutter arc upon rotation of the workpiece about its axis. The intersection point of the two spindle axes must be set with high accuracy. This is done by setting the indexing head spindle (1) upright (Fig.2) and aligning it accurately with the axis of the tool holder (or cutter head) using a dial indicator (fixed in the tool

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Machining spherical surfaces on vertical .....

holder) and an arbor. By moving the table (2) transversely, the indicator readings must not vary by more than 0.005-0.01 mm. The rim on the indexing head spindle can be used instead of an arbor. The indexing head spindle must be inclined only after accurate alignment is reached. The incline angle (γ) is calculated by the equation

$$\operatorname{tg}\gamma = \frac{AD}{BD},$$

where $AD = \frac{d}{2}$; $BD = R_c + OD = R_c + \sqrt{R_c^2 - \left(\frac{d}{2}\right)^2}$

substituting these values, the formula becomes

$$\operatorname{tg}\gamma = \frac{d}{D_c + 2\sqrt{R_c^2 - \left(\frac{d}{2}\right)^2}}.$$

The cutter rotation radius

$$R_p = R_c^2 \cos\gamma .$$

The workpiece is brought into a symmetrical position in relation to the cutter

Machining spherical surfaces on vertical .....

rotation axis (by moving the machine table) and checked by touching it with the cutter from two opposite sides. The cutting depth is set by the vertical lift of the table. Setting for machining an external and an internal half-sphere on the workpiece end and for bores with a concave surface (Fig.6), is also described. The cutting method can be also used on universal milling machines (the table must be turned by the angle γ instead of the indexing head in the case of a vertical milling machine). For machining spherical bores (Fig.6), the indexing-head-spindle incline angle formula is

$$\cos \gamma = \frac{B}{D_c} .$$

The tool rotation radius (R_p) must be slightly shorter than the sphere radius (R_c); this is achieved by setting the spindle at an angle 2-3° smaller than γ. The method has been tested on a vertical 6H11 (6N11) milling machine with a universal УГДН-135 (UGDN-135) indexing head and a 0.18 kw 1400 rpm АОЛ12-4 (AOL12-4) motor driving the indexing head spindle through a worm gear transmission with a $\frac{1}{50}$ ratio. Considering the head characteristic N to be 40, the total ratio between the motor and the spindle was

$$i_{total} = \frac{1}{50} \cdot \frac{1}{40} = \frac{1}{2000}$$

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Machining spherical surfaces on vertical .....

and the workpiece was performing $\frac{1400}{2000} = 0.7$ rpm in the opposite direction to the tool. The accuracy of the spherical surface of an external ball with a diameter of 58 mm was 0.005-0.01 mm. The method is good for piece and small-lot production and even with manual feed without a reduction gear. It needs no special attachments and the accuracy is higher than in machining with attachments on lathes, for the inaccuracies and plays in the attachments increase the machining errors. For series production the following is necessary: a reduction gear; cutter holders or heads permitting easy adjustment of the tool rotation radius; special supports for rigid holding of the workpiece and the tool holder. There are 8 figures.

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KHMARA, I. Kh.

Machining spherical surfaces on vertical milling machines. Stan.i instr. 32 no.6:18-20 Je '61. (MIRA 14:6)
(Milling machines)

KHMARA, L.

Volunteers aid construction organizations. Fin. SSSR 37 no.11: 66-68 N'63. (MIRA 17:2)

1. Zaveduyushchiy vneshtatnym otdelom po stroitel'stvu Nebit-Dagskogo gorodskogo komiteta Kommunisticheskoy partii Turkmenii.

GURVICH, S.I.; KAZARINOV, L.N.; KHMARA, N.V.

[Ancient rare-metal-titanium placers, methods of prospecting and evaluating them] Drevnie redkometal'no-titanovye rossypi, metody ikh poiskov i otsenki. Moskva, Nedra, 1964. 169 p. (MIRA 17:12)

TAYTS, Noy Yur'yevich; ROZENGART, Yuriy Iosifovich; KHMARA, S.M., otvetstvennyy redaktor; LIBERMAN, S.S., redaktor izdatel'stva; ANDREYEV, S.P., tekhnicheskiy redaktor

[Continuous heating furnaces] Metodicheskie nagrevatel'nye pechi. Khar'kov, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 248 p. (MLRA 9:11)
(Furnaces)

KHMARA, S.M.

137-58-2-2889

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 98 (USSR)

AUTHORS: Fel'dman, I.I., Khmara, S.M.

TITLE: Experimental Determination of Hammer Impact Force (Eksperimental'noye opredeleniye energii udara molotov)

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 11, pp 71-77

ABSTRACT: A study of steam or air hammers conducted with the aid of a speed-recording instrument made it possible to determine the speed of a hammer at the moment of impact and during its rise and fall. A 5-ton SKMZ hammer operating on 5.0 - 6.5 atmospheres gage pressure was not developing sufficient impact force. Suitable changes in the design of the pressure-valve control resulted in a steady swinging cycle of the hammer; increasing its speed by a factor of 2.1 increased its impact force by a factor of 4.4.

Ye.L.

1. Hammers—Impact—Determination

Card 1/1

KHMARA, S.M.

137-58-2-2898

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 99 (USSR)

AUTHOR: Khmara, S.M.

TITLE: The Effect of Individual Die Parameters on the Forging Power of the Presses (Vliyaniye otdel'nykh parametrov shtampov na usiliye shtampovki na pressakh)

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 11, pp 133-140

ABSTRACT: Methods are evolved for determining the ratio of the width of a burr to its thickness (and an equation and nomogram are included) and for determining the forging power of the presses in hot press forging.

Ya.O.

1. Forge presses—Power—Die factors 2. Forge presses—Performance —Die factors

Card 1/1

KHMARA, S.M., kand.tekhn.nauk, dotsent, otv.red.; KOPYTOV, V.F., otv. red.; VESSEL'MAN, S.O., prof., otv.red.; DONSKOY, Ya.Ye., red.; ZAMAKHOVSKIY, L.S., tekhn.red.

[Conversion of industrial furnaces and boiler installations to natural gas] Perevod promyshlennykh pechei i kotel'nykh ustanovok na prirodnyi gaz. Khar'kov, Khar'kovskoe obl.izd-vo, 1958. 233 p. (MIRA 13:1)

1. Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Khar'kovskoye oblastnoye pravleniye. 2. Chlen-korrespondent AN USSR (for Kopytov).
(Furnaces)

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 11 (USSR) SOV/137-59-3-4966

AUTHOR: Khmara, S. M.

TITLE: Utilization of Natural Gas and Introduction of a New Heating Technique in Industrial Furnaces (Ispol'zovaniye prirodnogo gaza i vnedreniye novoy tekhniki nagreva v promyshlennykh pechakh)

PERIODICAL: Byul. tekhn.-ekon. inform. Sovnarkhoz. Khar'kovsk. ekon. adm. r-na, 1958, Nr 2, pp 16-18

ABSTRACT: An abbreviated account of the contents of reports and talks at the Khar'kov Industrial-engineering Session on the exchange of experiences in the utilization of natural gas and introduction of new heating technique in industrial furnaces and boilers, which took place February 24 - 25, 1958. Achievements in the transfer of industrial units from solid and liquid fuel and low-calory gas to natural gas, for example, forging, heat treatment and open-hearth furnaces, as well as cupola furnaces and dryers, are noted. Examples of savings in time and cost of heating and data on the selection of the type of burners for various furnaces in a number of establishments in Khar'kov are adduced. The problems on the application of air preheating,

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Utilization of Natural Gas and Introduction of a New Heating Technique in (cont.) SOV/137-59-3-4966

automatization of furnaces, and nonoxidizing heating of metal are also exposed.

M. E.

Card 2/2

KHMARA, P.I., inzh., red.; VOROB'YEV, S.A., kand.tekhn.nauk, red.; KUZUBOV, V.I., inzh., red.; LEONOV, A.Ye., dotsent, red.; MALYSH, Yu.I., inzh., red.; PUSTOVALOV, V.I., inzh., red.; SAVCHENKOV, V.A., kand. tekhn.nauk, red.; KHMARA, S.M., kand.tekhn.nauk, red.; DONSKOY, Ya.Ye., red.; LYALYUK, I.P., red.; SHEVCHENKO, M.G., tekhn.red.

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